

Quarkus JMS Communication

JEE Microservices @ CGS IT – 2023

v.1.0.3





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Quarkus JMS

AMQPP oder Artemis
 JMS Extension

```
<dependency>
     <groupId>org.amqphub.quarkus</groupId>
     <artifactId>quarkus-qpid-jms</artifactId>
</dependency>
```



Quarkus JMS – Starting JMS Broker



Quarkus JMS – Sender Example

```
@ApplicationScoped
public class PriceProducer implements Runnable {
   @Inject
   ConnectionFactory connectionFactory;
   private final ScheduledExecutorService scheduler = Executors.newSingleThreadScheduledExecutor();
   void onStart(@Observes StartupEvent ev) {
       scheduler.scheduleWithFixedDelay(this, OL, 5L, TimeUnit.SECONDS);
   void onStop(@Observes ShutdownEvent ev) {
       scheduler.shutdown(); }
   @Override
   public void run() {
       try (JMSContext context = connectionFactory.createContext(JMSContext.AUTO_ACKNOWLEDGE)) {
           context.createProducer().send(context.createQueue("prices"), Integer.toString(random.nextInt(100)));
       } } }
```



Quarkus JMS – Consumer Service

```
@Override
   public void run() {
      try (JMSContext context = connectionFactory.createContext(JMSContext.AUTO_ACKNOWLEDGE)) {
           JMSConsumer consumer = context.createConsumer(context.createQueue("prices"));
           while (true) {
               Message message = consumer.receive();
               if (message == null) return;
               lastPrice = message.getBody(String.class);
       } catch (JMSException e) {
           throw new RuntimeException(e);
```



Danke für Ihre Aufmerksamkeit

